

Parameter	Value	Unit	Parameter	Value	Unit
α	0.001		β	0.001	
γ	0.001		δ	0.001	
ϵ	0.001		ζ	0.001	
η	0.001		θ	0.001	
ι	0.001		κ	0.001	
λ	0.001		μ	0.001	
ν	0.001		ξ	0.001	
\omicron	0.001		π	0.001	
ρ	0.001		σ	0.001	
τ	0.001		υ	0.001	
ϕ	0.001		χ	0.001	
ψ	0.001		ω	0.001	
Ω	0.001		Θ	0.001	
Φ	0.001		Ψ	0.001	
Υ	0.001		Ξ	0.001	
Λ	0.001		Σ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	
Δ	0.001		Ψ	0.001	
Σ	0.001		Ξ	0.001	
Π	0.001		Υ	0.001	
Γ	0.001		Φ	0.001	

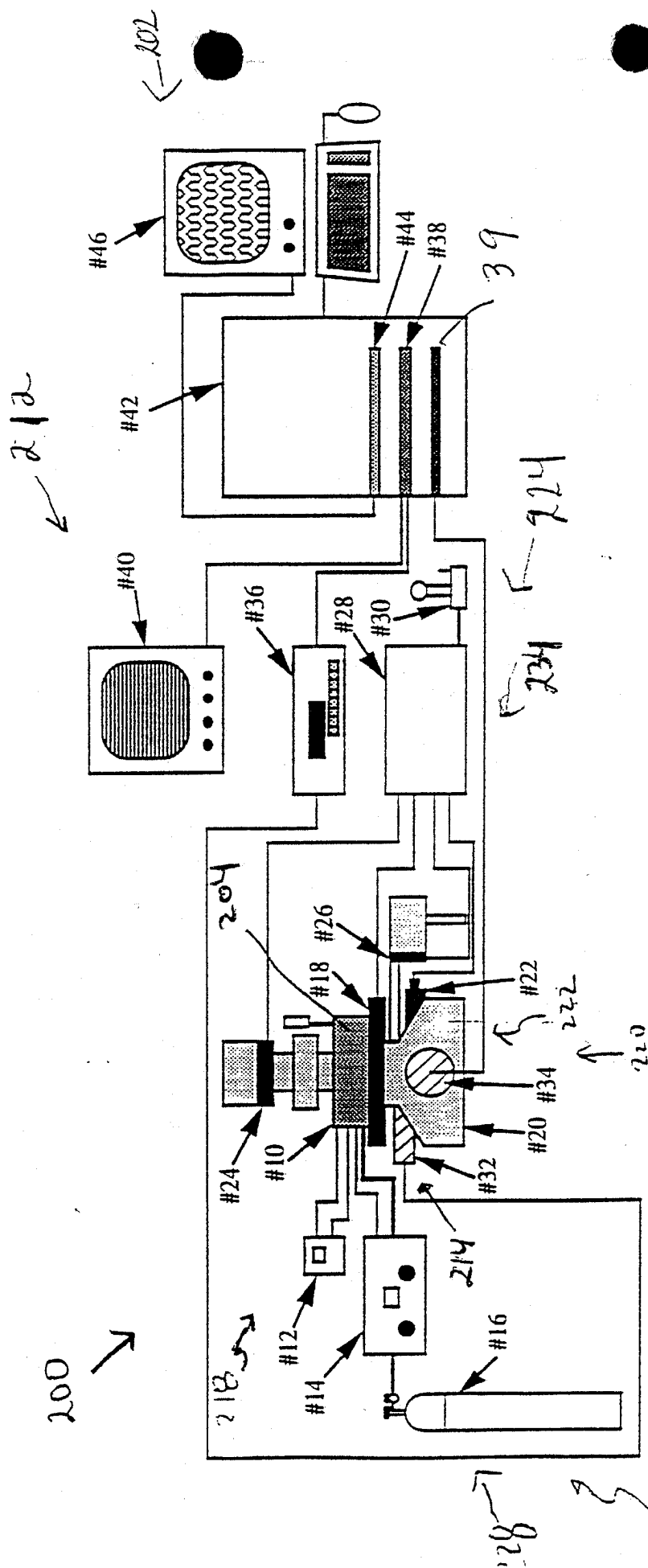
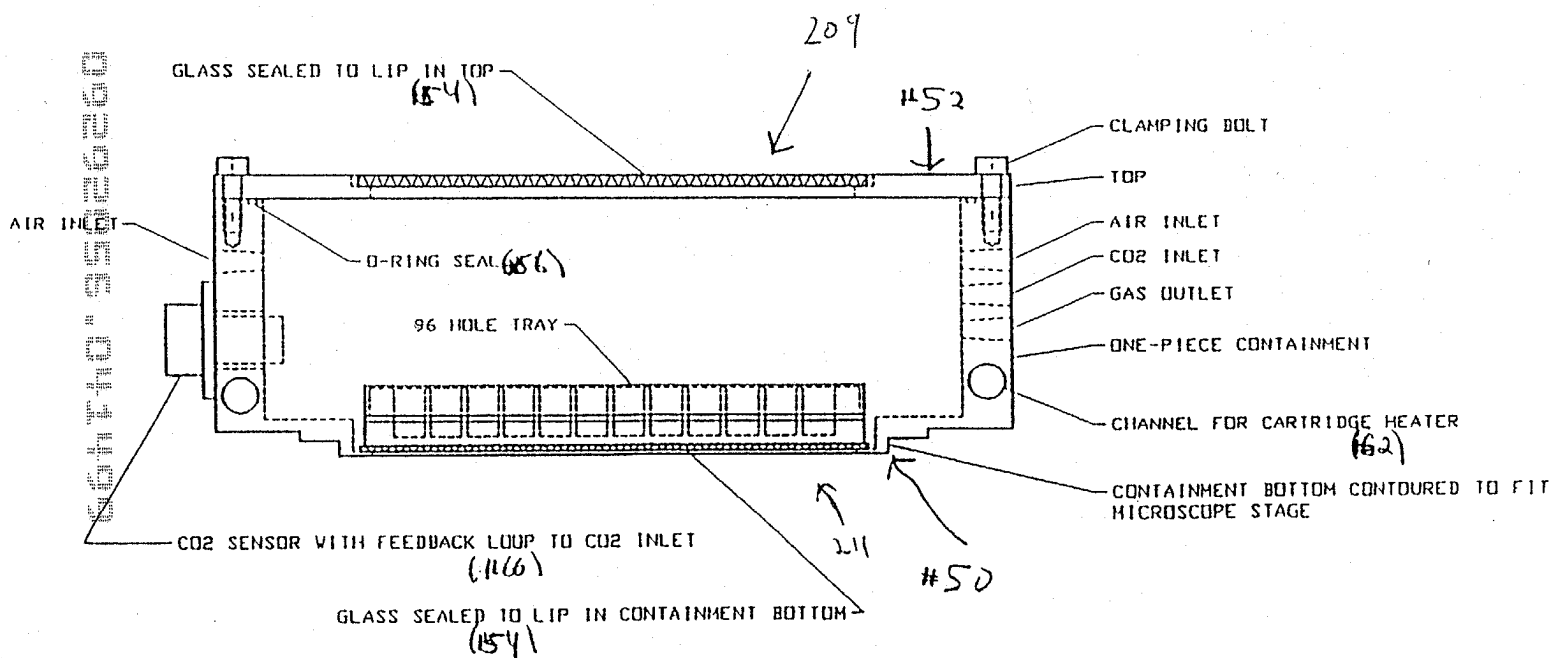
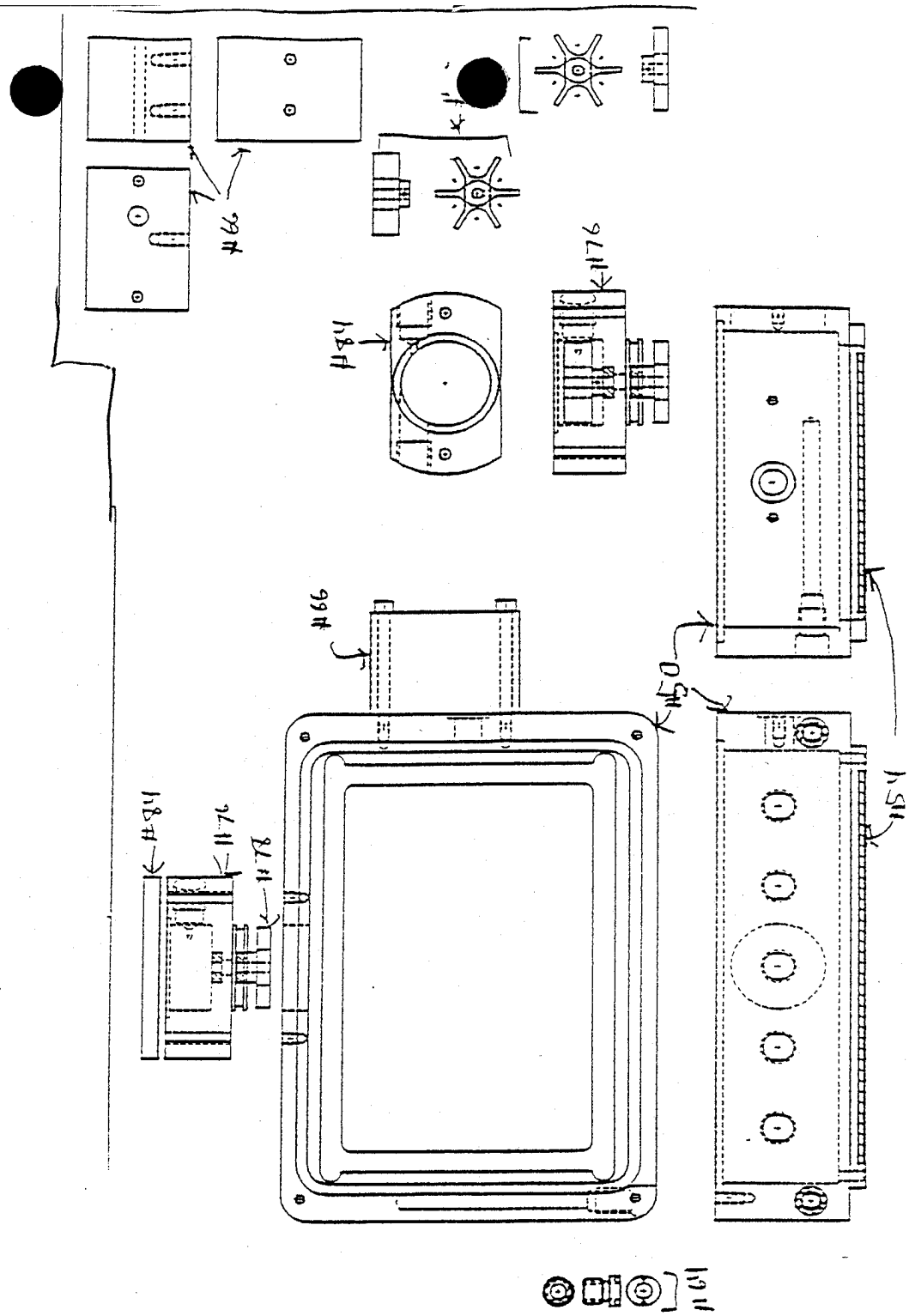


FIG 1b



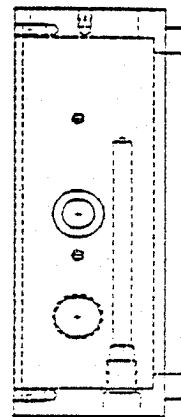
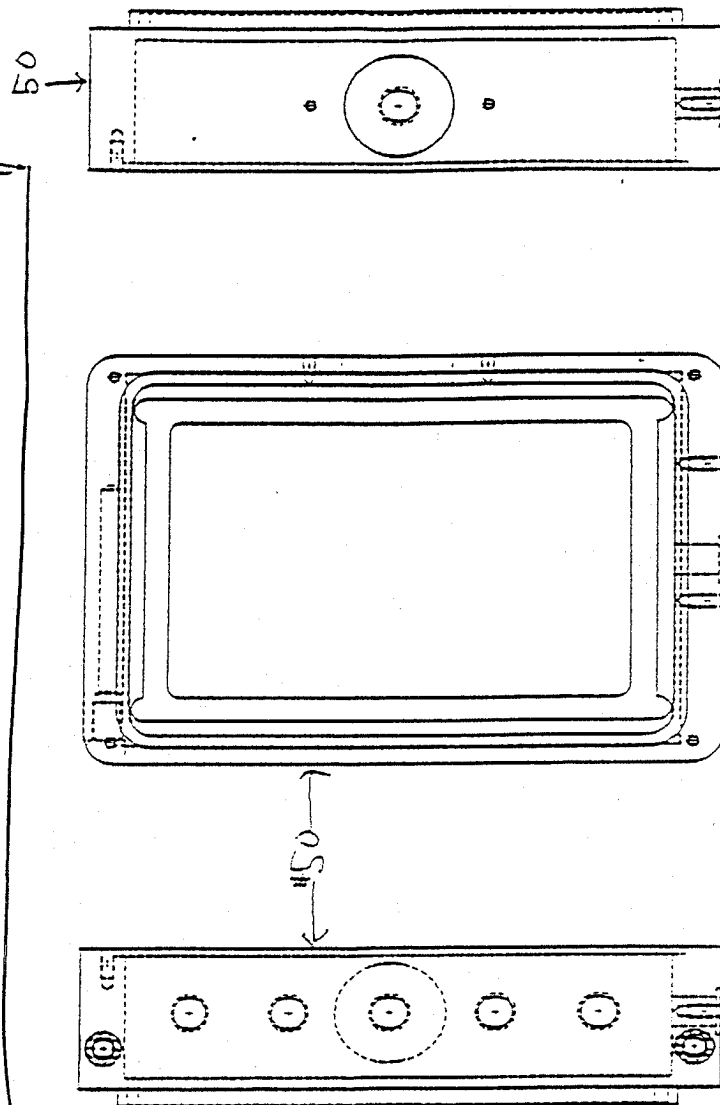
[illegible]

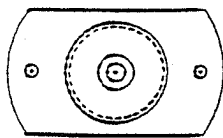
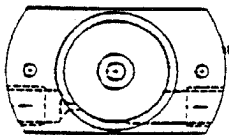
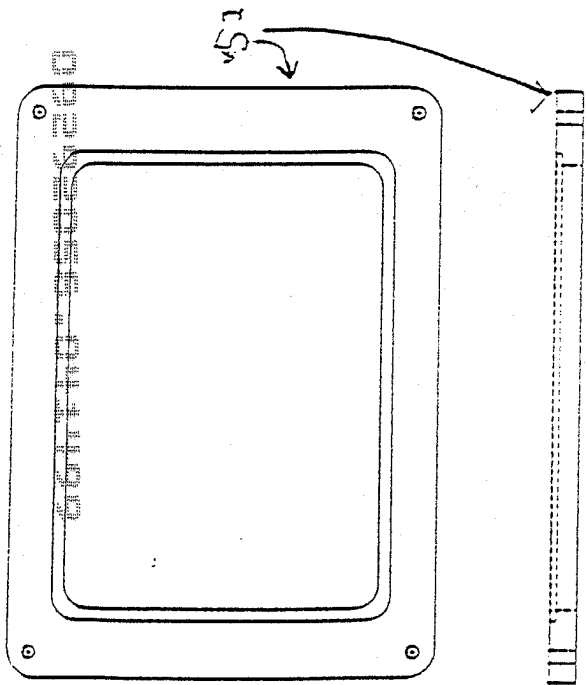
12



6440 502660

FIG 1d

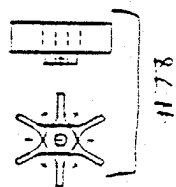




1171

1172

15a



1173



1174



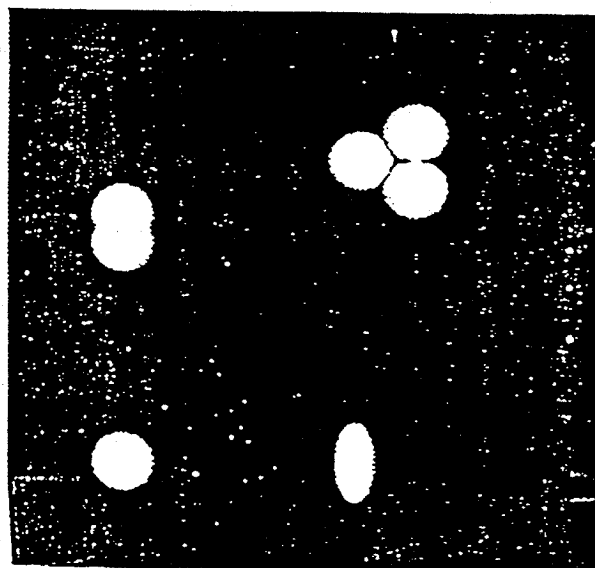
1175



1176

FIG 10

Fig 2



(A)

Total number of objects: 4

Object number 0
X Centroid 100.000
Y Centroid 100.000
Area in Pixels 20571
Perimeter 161.252
Perim/Area 1.043
Sphericity 0.970
Excentricity 1.004

Object number 1
X Centroid 312.500
Y Centroid 100.000
Area in Pixels 32841
Perimeter 213.180
Perim/Area 1.135
Sphericity 0.582
Excentricity 1.721

Object number 2
X Centroid 100.000
Y Centroid 300.000
Area in Pixels 17371
Perimeter 166.412
Perim/Area 1.328
Sphericity 0.428
Excentricity 3.357

Object number 3
X Centroid 375.000
Y Centroid 334.643
Area in Pixels 61881
Perimeter 361.060
Perim/Area 1.696
Sphericity 0.385
Excentricity 1.037

(B)

Figure 2. Demonstration of pattern recognition for model data. a. Image of "model" data representing 2 single cells, 1 dividing cell, and 3 cells in contact. b. Statistics determined based on image analysis. Objects 0 and 2 have a relatively small areas and are the single cells; object 1 has an intermediate area and is the dividing cell; object 4 has an area roughly three times as large as objects 0 and 2 and is the cluster.

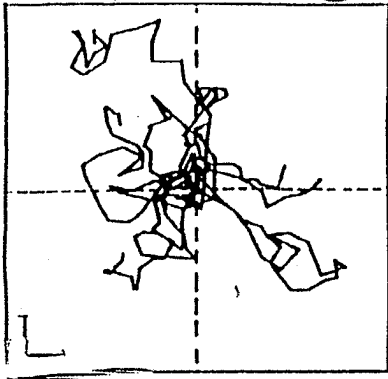


FIG 3

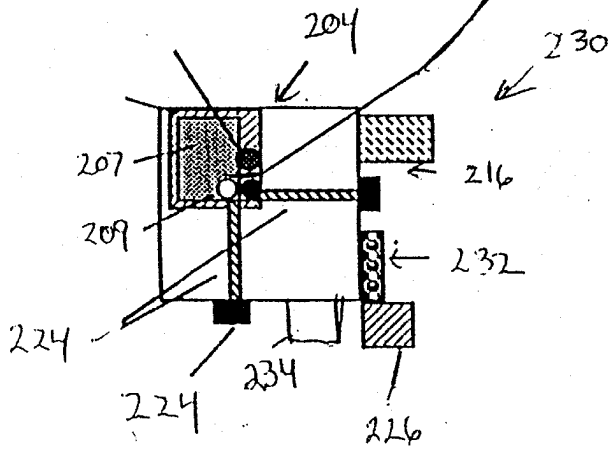
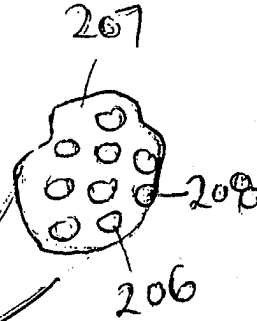


FIG 4a

60110 9000000

FIG 4b

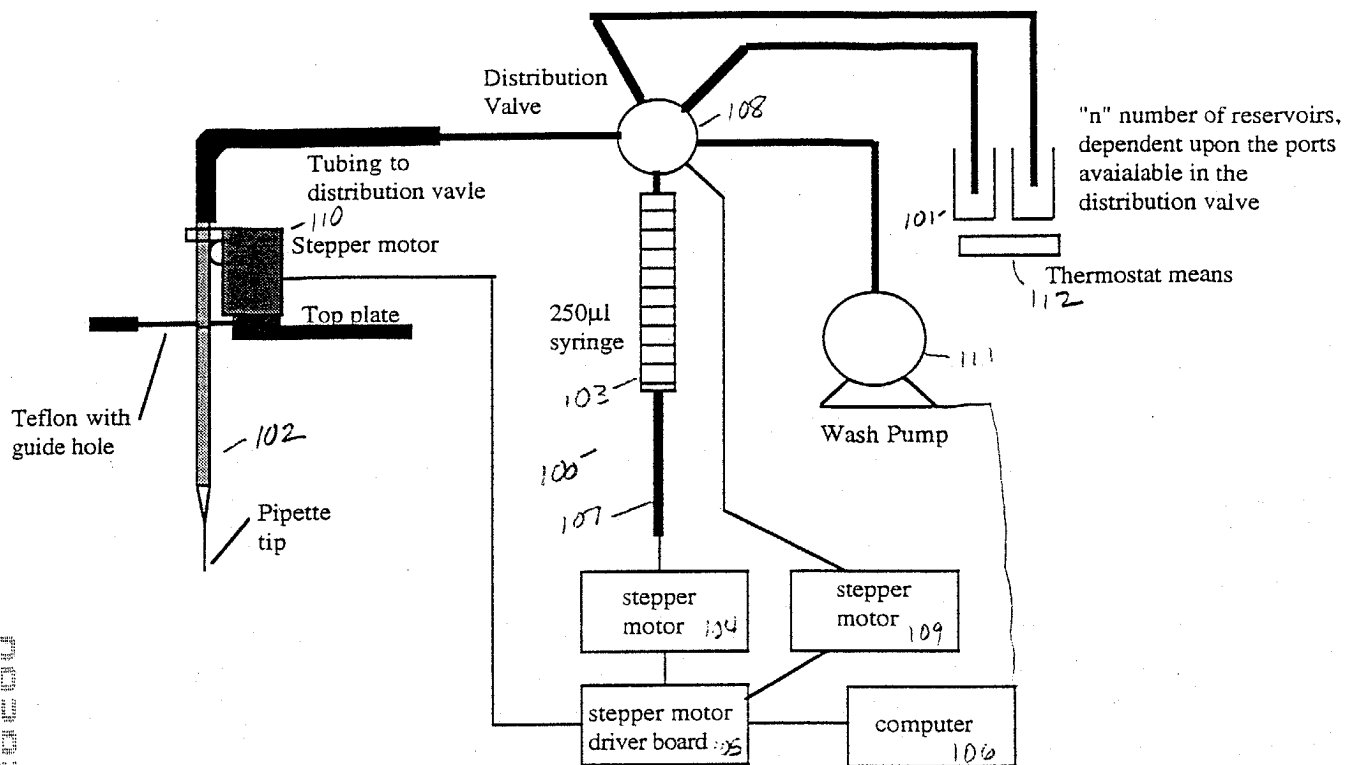


FIG 4C

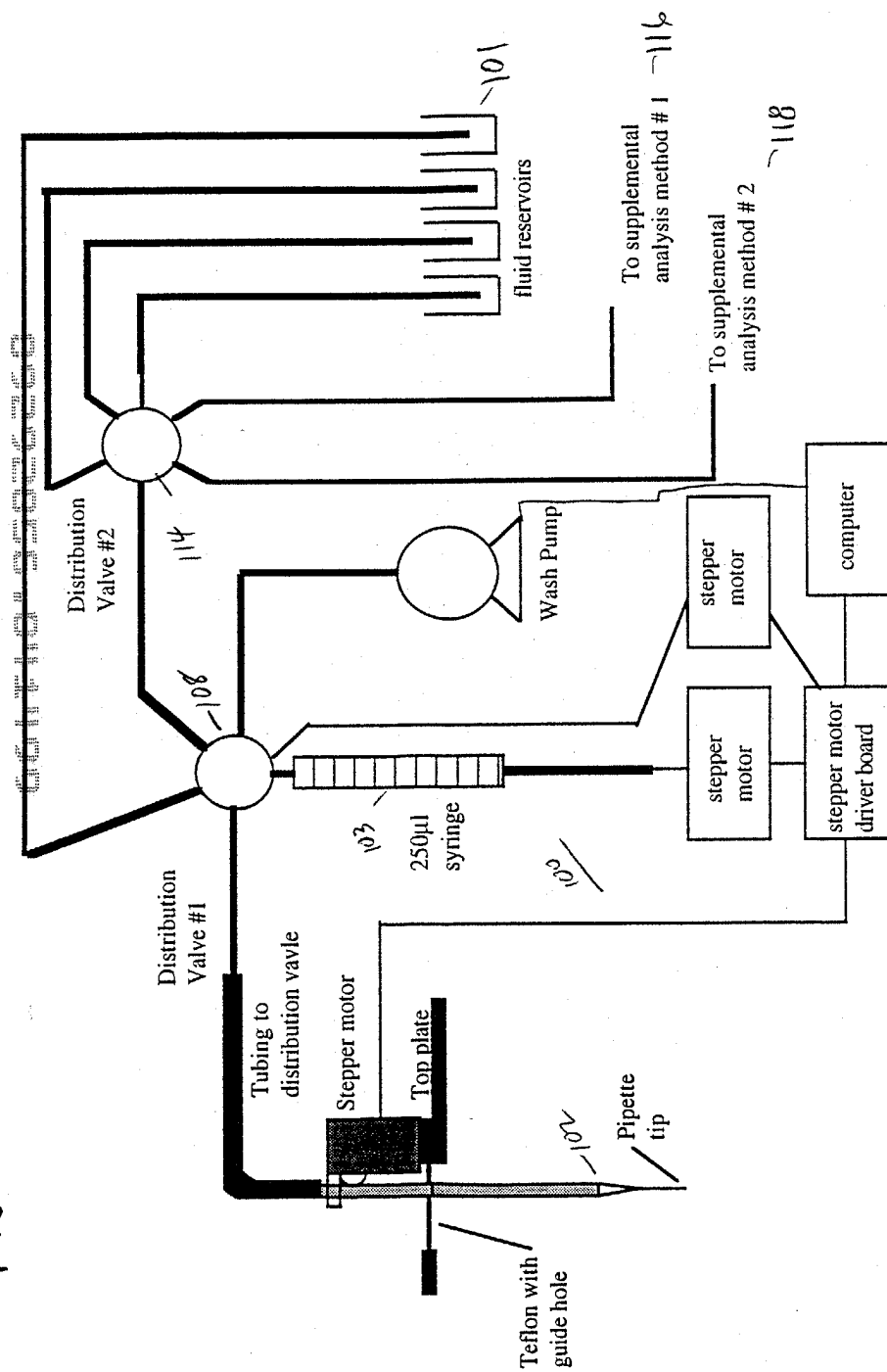
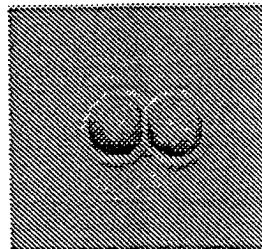
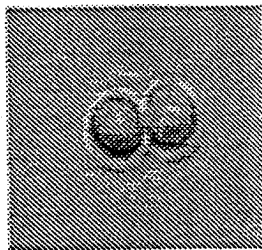
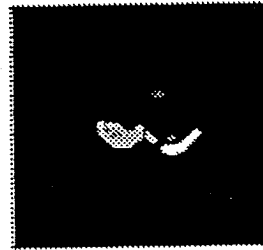
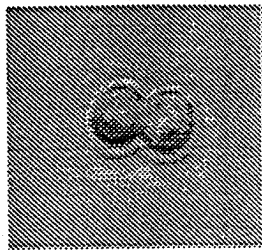
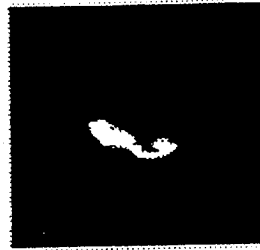
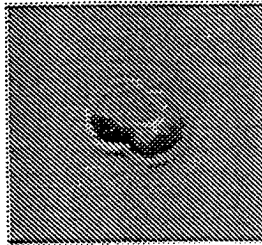


FIG 5



664410 3505550

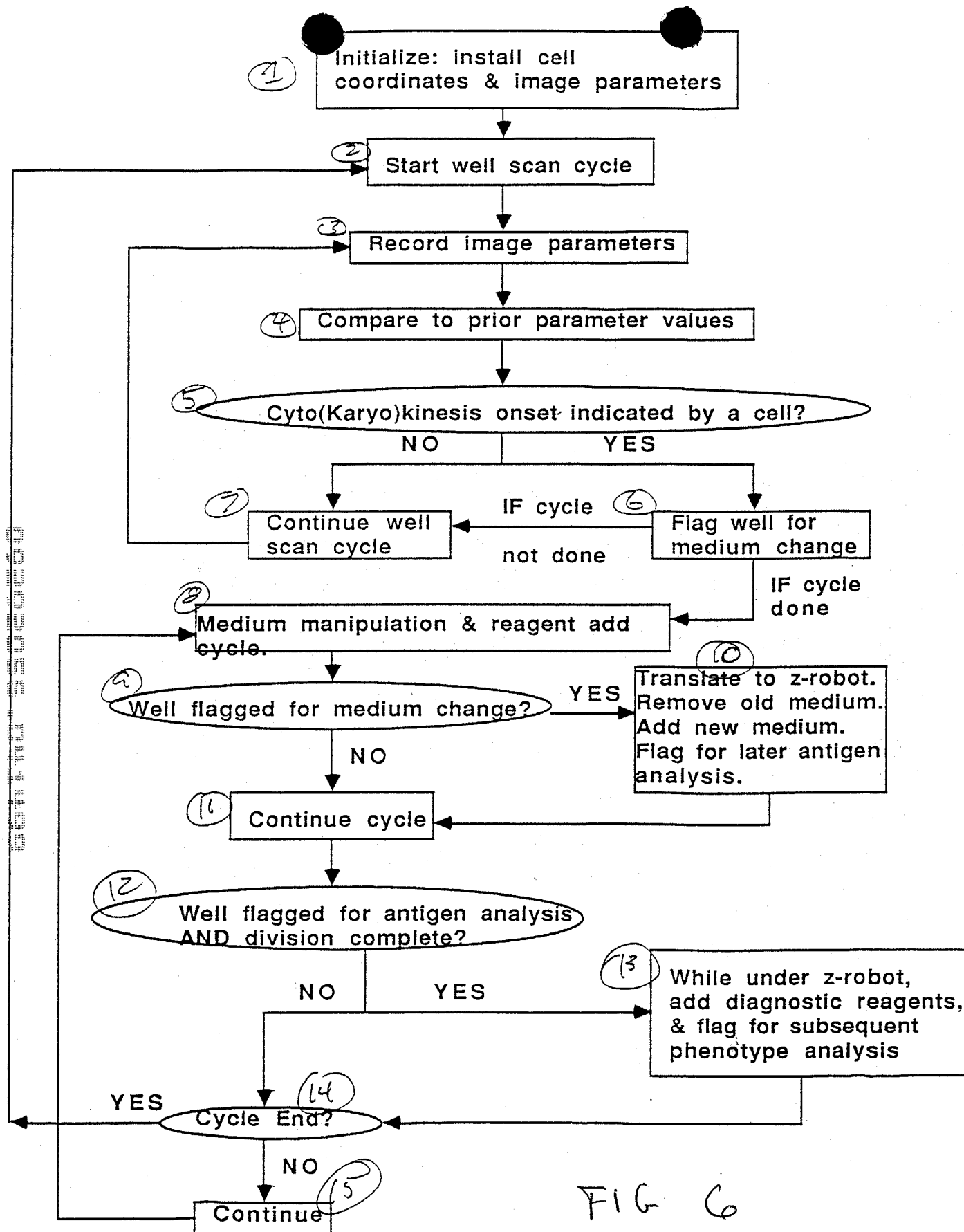


FIG 6

